PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference			
	OR FURTHER ACTION See Form PCT/IPEA/416		
International application No. Inte	mational filing date (day/month/year)	Priority data (1	
PC1/BE2004/000445 24	.03.2004	Priority date (day/month/year)	
International Patent Classification (IPC) or national	onal classification and IPC	14.04.2003	
F01N 3/031, F01N 3/033			
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Applicant			
Scania CV Aktiebolag (pu	bl) et al		
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International application No.

PCT/SE2004/000445

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International application No.

PCT/SE2004/000445

Box No. V	Reasoned statement a citations and explana	under Article 35(2) with regard to novelty, inventive step or industrial applicabil tions supporting such statement		
. Statement	-			
Novelt	y (N)	Claims Claims	1-12	YE NO
Inventi	ve step (IS)	Claims Claims	1-12	YE
Industr	ial applicability (IA)	Claims Claims	1-12	YE:

2. Citations and explanations (Rule 70.7)

The invention according to the claims relates to a method and a particle filter adapted for spontaneous regeneration. The exhaust gas flow is bypassed when the filter differential pressure exceeds a certain level. In this way filter ignition due to a critical particle level can be avoided.

Cited documents:

D1: US5138835 D2: WO03074846

Document D1 is considered to represent the closest prior art. It discloses a diesel engine exhaust gas filter (4 in figure 1) with a bypass (8). The bypass flow is activated when a predetermined upper exhaust gas filter differential pressure is measured by a measuring device (7). The measuring device includes a piston (12 in figure 2) which is displaced against the pressure of a spring (16).

The invention according to claim 1 differs from the filter in D1 in that it and the bypass are contained in a silencer housing. Due to this feature silencing is achieved both in normal operation and when bypassing.

It is known in the art with filters encased in silencers. See for instance D2 which discloses a filter with two different flow paths, one with a filter and one bypass flow path without a filter (see the abstract). The filter can be encased in a silencer, see claim 44.

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International application No.

PCT/SE2004/000445

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Consequently, a solution to the problem described is known from document D2.

It is therefore considered obvious to a person skilled in the art to use the teachings of D1 together with prior-art as specified in D2 in order to achieve the silencing of the filter in both normal and bypass mode. Further, the description and the answer to the written opinion lack statements why it should be non-obvious to a person skilled in the art to do this combination. Accordingly, the method of claim 1 lacks an inventive step.

The device according to claim 6 includes the same characteristics as the method according to claim 1. Therefore, it follows from the arguments stated that the device according to claim 6 lacks an inventive step.

The characteristics of claims 2-4 and 7-9 are all known from D1. Therefore the invention according to claims 2-4 and 7-9 also lack an inventive step.

Further, it is considered obvious to a person skilled in the art that a catalyst can be placed before the filter and that it should be independent of bypassing. The advantages thus achieved can readily be foreseen. Consequently, the subjectmatter of claims 5 and 10 lacks an inventive step.

It also follows from the arguments stated that the silencer according to claim 11 and the vehicle according to claim 12 lacks an inventive step.

International application No.

PCT/SE2004/000445

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 12 relates incorrectly to a silencer according to claim 13. It is assumed that claim 12 is meant to relate to the silencer of claim 11.

Form PCT/IPEA/409 (Box No. VIII) (January 2004)

CLAIMS:

1. A method pertaining to a particle filter (3) for an exhaust system of a combustion engine whereby the filter (3) is regenerated by spontaneous combustion of particles accumulated in the filter and whereby the exhaust gases from the combustion engine in operation are led past the filter (3) when the counterpressure in the exhaust gases which is caused by the filter (3) exceeds a certain level, **characterised** in that the exhaust gases are led past the filter (3) through a space inside a silencer (1) which encloses the filter (3).

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- 2. A method according to claim 1, **characterised** in that exhaust gases from the combustion engine are led past the filter (3) through a valve (4) which opens when the counterpressure in the exhaust gases is above said level.
- 3. A method according to claim 2, **characterised** in that the valve (4) opens because of the action of the pressure of the exhaust gases against a holding-back spring (13;16).
 - 4. A method according to claim 1 or 2, characterised in that said counterpressure is detected by at least one pressure sensor (17) whose output signals are used for controlling (CDU) the bypassing of the filter.
 - 5. A method according to any one of the foregoing claims, **characterised** in that the exhaust gases are caused to pass through a catalyst (2) even during bypassing of the filter (3).

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6. A device pertaining to a particle filter (3) for an exhaust system of a combustion engine whereby the filter (3) is adapted to being regenerated by spontaneous combustion of particles accumulated in the filter and whereby a bypass duct via which exhaust gases from the combustion engine in operation are arranged to be led past the filter (3) when the counterpressure in the exhaust gases which is caused by the filter (3) exceeds a certain level, **characterised** in that the exhaust gases are led past the filter (3) through a space inside a silencer (1) which encloses the filter (3).

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- 7. A device according to claim 6, **characterised** by a valve (4) which is arranged to open when the counterpressure in the exhaust gases is above said level, in order to lead exhaust gases from the combustion engine past the filter (3).
- 8. A device according to claim 7, **characterised** in that the valve (4) is provided with a holding-back spring (13;16) which the pressure of the exhaust gases acts against.
 - 9. A device according to claim 6 or 7, characterised by at least one pressure sensor (17) for detecting said counterpressure, the output signals from which are arranged to be used for controlling (CDU) the bypassing of the filter (3).

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- 10. A device according to any one of claims 6 9, characterised by means for causing the exhaust gases to pass through a catalyst (2) even during bypassing of the filter (3).
- 11. A silencer (1) which comprises a device according to any one of claims 6-10.
- 12. A vehicle which is driven by combustion engine and comprises at least one silencer (1) according to claim 13.